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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/790,873	03/02/2004	Klaus Brun	090936.0625	4721
31625	7590 09/20/2005		EXAMINER	
BAKER BOTTS L.L.P.			CASAREGOLA, LOUIS J	
PATENT DEPARTMENT 98 SAN JACINTO BLVD., SUITE 1500		500	ART UNIT	PAPER NUMBER
AUSTIN, TX	78701-4039		3746	

DATE MAILED: 09/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/790,873	BRUN, KLAUS	,
Office Action Summary	Examiner	Art Unit	
	Louis J. Casaregola	3746	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNICA R 1.136(a). In no event, however, may a rep but in apply and will expire SIX (6) MONTH catute, cause the application to become ABA	ATION. ly be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on _			
2a) This action is FINAL . 2b) ⊠ 7	This action is non-final.		
3) Since this application is in condition for allo			
closed in accordance with the practice und	er Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-4</u> is/are pending in the application	on.		
4a) Of the above claim(s) is/are with			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-4</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction an	nd/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Exam	niner.		
10)☐ The drawing(s) filed on is/are: a)☐	accepted or b) cobjected to by	the Examiner.	
Applicant may not request that any objection to			
Replacement drawing sheet(s) including the con	= 1		
Priority under 35 U.S.C. § 119			
•		40(a) (d) as (5)	
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:	eign priority under 35 U.S.C. §	19(a)-(d) or (f).	
1.☐ Certified copies of the priority docum	ents have been received.	·	
2. Certified copies of the priority docum		olication No	
3. Copies of the certified copies of the p			
application from the International Bu	reau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a	list of the certified copies not re	eceived.	
			-
Attachment(s)			
1) Notice of References Cited (PTO-892)		mmary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB 	· —	Mail Date mal Patent Application (PTO-152)	•
Paper No(s)/Mail Date	6) Other:	•	

Claim Rejections - 35 USC 102

Claims 1 and 4 are rejected under 35 USC 102(b) as being anticipated by Luttrell.

The claimed gas turbine reads on the turbine disclosed by Luttrell, which includes the following features shown in Figures 1 and 4-6: a rotatable wheel 24; a radial/centrifugal compressor section on an interior wheel side and comprising any of blades 52, 52a, and/or 52b; a radial turbine section located outward from the compressor and comprising blades 53 and/or 53a; a stationary shroud 14 having a combustor section 62 and nozzles 69 located between the compressor and turbine; and a fuel injector 71.

Claim Rejections - 35 USC 103

Claim 2 is rejected under 35 USC 103(a) as being unpatentable over Lutrell in view of Abell.

The use of starter motor-generators in conjunction with turbine engines is conventional as shown, for example, by Abell; see discussion of element 70 in column 6, paragraph 1. It would have thus been obvious to modify Lutrell's engine to include a starter generator to perform its normal useful functions of starting and/or generating electric current.

Art Unit: 3746

Claim 3 is rejected under 35 USC 103(a) as being unpatentable over Lutrell in view of Schlote.

The use of water injection in conjunction with combustion turbines is also a well known feature as shown, for example, by Scholte; see elements 80, 82 and 86 in Figures 3 and 5. It would have been obvious to modify Lutrell's engine to include such a feature as an expedient for controlling combustion temperatures and/or increasing power output.

Additional References

James is cited as disclosing a further pertinent example of a turbine engine having radial flow compressor and turbine sections on the same rotor wheel.

L. J. Casaregola 571-272-4826 (M-F; 7:30-4:00) 571-273-8300 FAX September 19, 2005

LOUIS J. CASAREGOLA PRIMARY EXAMINER

L. To Carangolo

If repeated attempts to reach the examiner by telephone are unsuccessful, the art unit supervisor, Timothy Thorpe, can be reached at 571-272-4444.

Information regarding the status of this application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR, and status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).